

ABSTRACT

The object is to provide a vitreous antimicrobial agent that can exhibit excellent antimicrobial properties when added to various types of resins, that has excellent discoloration resistance and hot water resistance, and that can easily be produced at a commercial scale. It is also to provide an antimicrobial resin composition and an antimicrobial product including the vitreous antimicrobial agent.

The present invention relates to a vitreous antimicrobial agent that includes, relative to 100 mass % of total glass components, 0.1 to 2 mass % of Ag_2O , 40.5 to 49 mass % of ZnO , 6 to 9.5 mass % of SiO_2 , 30.5 to 39.5 mass % of B_2O_3 , 2 to 10 mass % of an alkaline earth metal oxide, and 6 to 7.5 mass % of Na_2O ; a vitreous antimicrobial agent comprising, in addition to these, 0.01 to 5 mass % of CeO_2 as necessary; an antimicrobial resin composition that includes the vitreous antimicrobial agent; and an antimicrobial product that includes the vitreous antimicrobial agent.